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ArchiCore Electronics CO., LTD



## Product Specification

<b>Product name</b>	<b>GL1P2006</b>
<b>Product Type</b>	<b>Single Port SMD transformer module</b>
<b>System Application</b>	<b>100/1000BASE-T</b>
<b>Author</b>	<b>Sundi Lin</b>
<b>Approved By</b>	<b>Alvin Liou</b>

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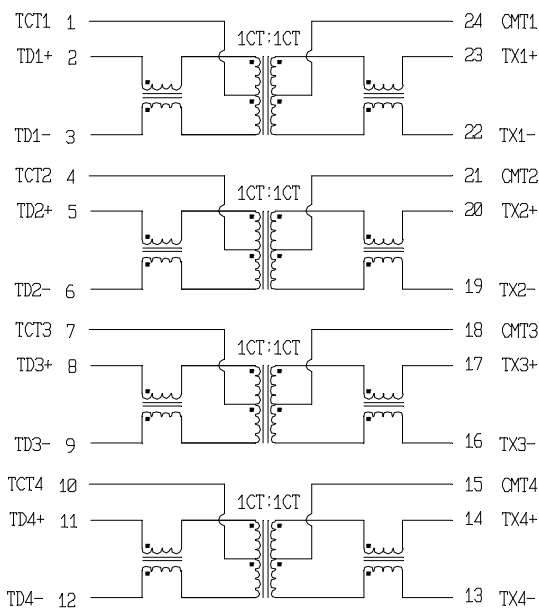
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**Specifications** :@ 25<sup>0</sup>C, operating temperature 0<sup>0</sup>C -70<sup>0</sup>C

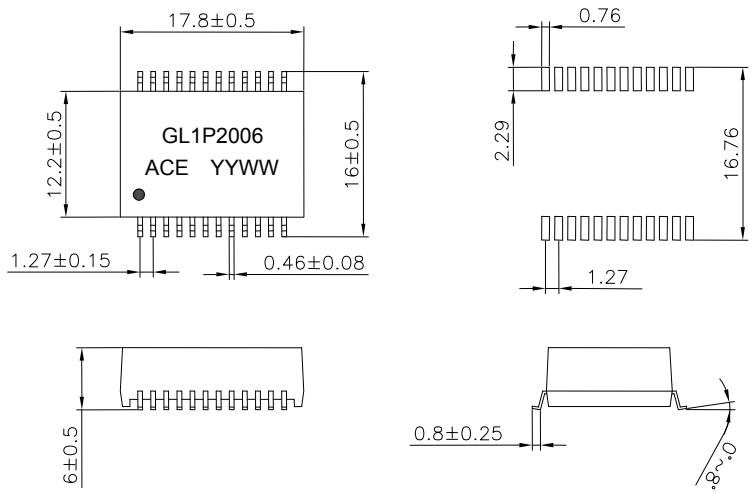
- |                       |               |               |
|-----------------------|---------------|---------------|
| 1. Inductance( note1) | 350uH Min.    | @100KHz,100mV |
| 2.Turn Ratio          | 1CT :1CT ± 5% |               |
| 3. Insertion Loss     | -1.0 dB Max.  | @1-100MHz     |
| 4. Return loss        | -16 dB Min.   | @1-30MHz      |
|                       | -14.4 dB Min. | @40MHz        |
|                       | -13.1 dB Min. | @50MHz        |
|                       | -12.0 dB Min. | @60-80MHz     |
|                       | -10.0 dB Min. | @100MHz       |
| 5. Cross talk         | -43.5 dB Min. | @30MHz        |
|                       | -37.5 dB Min. | @60MHz        |
|                       | -33 dB Min.   | @100MHz       |
| 6.CMRR                | -40 dB Min.   | @30MHz        |
|                       | -35 dB Min.   | @60MHz        |
|                       | -30 dB Min.   | @100MHz       |
| 7. Voltage isolation  | 1500 vrms     |               |
| 8. DCR                | 1.2Ω max      |               |
| 9. Leakage Inductance | 0.8uH max.    |               |
| 10. Interwinding Cap  | 25pF max.     |               |

Note 1 : measured at 8mAdc over operating temperature 0<sup>0</sup>C -70<sup>0</sup>C  
Note 2: Above specification only for one port.

**Schematic:**



**Mechanical:** ± 0.25mm





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**Revision History:**

Rev.	Author	Approved by	Description of change	Issued date
0	Sundi	Alvin	New release	2011/07/13
1	Sundi	Alvin	Add Specifications 8,9,10	2011/08/01

